RCA TECHNICAL PAPERS

(1948)

INDEX

Volume II (c)

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INDEX
Volume II (c)

RCA REVIEW has listed in this Index substantially all published English-language technical papers on subjects in the radio, electronics and related fields, the author or a coauthor of which was associated with the Radio Corporation of America (including its various divisions and subsidiary companies) at the time of the paper's preparation or at the time the work described in the paper was performed.

The chronological index is followed by an alphabetical listing of papers by title, a section arranged alphabetically by authors, and a subject classification section.

This Index [Volume II(c)] supplements RCA TECHNICAL PAPERS (1919-1945)—INDEX—Volume I, (1946)—INDEX—Volume II(a) and (1947)—INDEX—Volume II(b). It is planned to continue the publication of these yearly Indexes as sub-volumes, consolidating them under one cover, at the end of the five-year period, as "RCA TECHNICAL PAPERS (1946-1950)—INDEX—Volume II." Subsequent volumes will cover successive five-year periods.

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Errata sheets for Volumes I, and II(b) are contained in this volume. They should be removed and inserted in the other volumes as indicated. It is suggested that only the new item number—e.g., "1254a or 61a"—be entered as corrections in the text, unless necessary to add an author's name. Any such number will indicate automatically that the item can be found on the errata sheet.

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The Manager, RCA Review

RCA Laboratories,
Princeton, N. J.
January 18, 1949

RCA TECHNICAL PAPERS

(1948)

INDEX, Volume II(c)

CONTENTS

ABBREVIATIONS iv

CHRONOLOGICAL INDEX 1

ALPHABETICAL INDEX 8

AUTHOR INDEX 17

SUBJECT INDEX 19

- Acoustics—Audio-Frequency Systems . . . 19
- Antennas—Transmission Lines 19
- Broadcasting 19
- Circuits—Components—Theory 19
- Communications 19
- Editorial 19
- Electron Optics 19
- Frequency Modulation 19
- General 20
- Measurements—Tests—Servicing 20
- Propagation 20
- Phonographs—Recording and Reproduction—Sound Motion Pictures 20
- Radiophoto—Facsimile 20
- Receivers—Reception 20
- Special Equipment and Processes 20
- Television 21
- Transmitters—Transmission 21
- Vacuum Tubes—Thermionics 21

ERRATA SHEET, INDEX, Volume II (b) (1947) . . . . 23 } to be removed

ERRATA SHEET, INDEX, Volume I (1919-1945) . . . . 25 }

ABBREVIATIONS

(Note—Titles of periodicals not listed below, as well as book titles, are not abbreviated.)

Amer. Jour. Phys.	AMERICAN JOURNAL OF PHYSICS
An. Amer. Acad. Pol. Soc. Sci.	ANNALS OF THE AMERICAN ACADEMY OF POLITICAL AND SOCIAL SCIENCES
Audio Eng.	AUDIO ENGINEERING
Broad. Eng. Jour.	BROADCAST ENGINEERS JOURNAL
Elec. Eng.	ELECTRICAL ENGINEERING
Electronic Ind.	ELECTRONIC INDUSTRIES
FM and Tele.	FM AND TELEVISION
Ind. Eng. Chem.	INDUSTRIAL AND ENGINEERING CHEMISTRY
Ind. Standard	INDUSTRIAL STANDARDIZATION (AMERICAN STANDARDS ASSOCIATION JOURNAL)
Inter. Photo	INTERNATIONAL PHOTOGRAPHER
Inter. Project	INTERNATIONAL PROJECTIONIST
Jour. Acous. Soc. Amer.	JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA
Jour. Appl. Phys.	JOURNAL OF APPLIED PHYSICS
Jour. Amer. Ceramic Soc.	JOURNAL OF THE AMERICAN CERAMIC SOCIETY
Jour. Bacteriology	JOURNAL OF BACTERIOLOGY
Jour. Chem. Phys.	JOURNAL OF CHEMICAL PHYSICS
Jour. Eng. Educ.	JOURNAL OF ENGINEERING EDUCATION
Jour. Frank. Inst.	JOURNAL OF THE FRANKLIN INSTITUTE
Jour. Opt. Soc. Amer.	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA
Jour. Soc. Mot. Pic. Eng.	JOURNAL OF THE SOCIETY OF MOTION PICTURE ENGINEERS
Jour. Tele. Soc. (Brit.)	JOURNAL OF THE TELEVISION SOCIETY (BRITISH)
Phys. Rev.	PHYSICAL REVIEW
Princeton Eng.	PRINCETON ENGINEER
Proc. Amer. Phil. Soc.	PROCCEDINGS OF THE AMERICAN PHILOSOPHICAL SOCIETY
Proc. I.R.E.	PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS
Proc. Rad. Club Amer.	PROCEEDINGS OF THE RADIO CLUB OF AMERICA
Product Eng.	PRODUCT ENGINEERING
Project. Eng.	PROJECTION ENGINEERING
Radio and Tele.	RADIO AND TELEVISION
Rad. Appl. Jour.	RADIO APPLIANCE JOURNAL
RCA Rad. Serv. News	RCA RADIO SERVICE NEWS
Rev. Mod. Phys.	REVIEWS OF MODERN PHYSICS
Rev. Sci. Instr.	REVIEW OF SCIENTIFIC INSTRUMENTS
RMA Eng.	RMA ENGINEER
Sci. Monthly	SCIENTIFIC MONTHLY
Teleg. and Teleph. Age	TELEGRAPH AND TELEPHONE AGE

RCA TECHNICAL PAPERS
(1948)

CHRONOLOGICAL INDEX

No.		*Year*
2205	"Antenna Facts", R. L. Rod, *CQ* (January)	1948
2206	FREQUENCY MODULATION, Volume I, RCA Review, RCA Laboratories Division, Princeton, N. J. (January)	1948
2207	"A New Variable-Area Recorder Optical System", J. L. Pettus and L. T. Sachtleben, *Jour. Soc. Mot. Pic. Eng.* (January)	1948
2208	"Progress in Television", V. K. Zworykin, *Radio Craft* (January)	1948
2209	"Servicing FM Receivers, Part IV—Special Circuits", M. Kaufman, *Radio Maintenance* (January)	1948
2210	"Sound Service Is Not a Luxury", E. Stanko, *Theatre Catalog 1948* (January)	1948
2211	"Teleran", W. W. Watts, *Signals* (January-February)	1948
2212	"Theater Television Prospects", A. N. Goldsmith, *Inter. Project.* (January)	1948
2213	"A Tube Complement for AC/DC AM/FM Receivers", *RCA Application Note AN-127*, RCA Tube Department Department, Harrison, N. J. (January 2)	1948
2214	"Circuit Design Precautions to Prevent Internal Arcs from Damaging Kinescopes", *RCA Application Note AN-128*, RCA Tube Department, Harrison, N. J. (January 15)	1948
2215	"Antenna Design for Low-Angle FM Propagation", O. O. Fiet, *Tele-Tech* (February)	1948
2216	"Broadcasting Studio Pickup Technique", H. M. Gurin, *Audio Eng.* (February)	1948
2217	"High-Speed Servicing", A. Liebscher, *Radio Service Dealer* (February)	1948
	RCA Rad. Serv. News (March-April)	1948
2218	"Optical Problems in Theatre Television", I. G. Maloff, *RCA Serv. Company News* (February)	1948
2219	"The Sensitivity Performance of the Human Eye on an Absolute Scale", A. Rose, *Jour. Opt. Soc. Amer.* (February)	1948
2220	"Sound Reinforcement in the Hollywood Bowl", M. Rettinger and S. M. Stevens, *Audio Eng.* (February)	1948
2221	"Theater Television—a General Analysis", A. N. Goldsmith, *Jour. Soc. Mot. Pic. Eng.* (February)	1948
	Inter. Project. (April, May, June, July)	1948
2222	"Working in Research", Pamphlet, RCA Laboratories Division, Princeton, N. J. (February)	1948
2223	"RCA 'Special Red' Tubes for Industrial Applications", *RCA Application Note AN-129*, RCA Tube Department, Harrison N. J. (February 2)	1948
2224	"Pulse-Operated High-Voltage Power Supply for Television Receivers", *RCA Application Note AN-130*, RCA Tube Department, Harrison, N. J. (February 16)	1948
2225	"The Television DC Component", K. R. Wendt, *RCA Licensee Bulletin LB-745* (February 20)	1948
2226	"Barrier Grid Storage Tube and Its Operation", A. S. Jensen, J. P. Smith, M. H. Mesner, and L. E. Flory, *RCA Review* (March)	1948

No.		*Year*
2227	"A Developmental Pulse Triode for 200 KW. Output at 600 Mc.", L. S. Nergaard, D. G. Burnside, and R. P. Stone, *Proc. I.R.E.* (March)	1948
2228	"Electro-Optical Characteristics of Television Systems: Introduction; Part I—Characteristics of Vision and Visual Systems", O. H. Schade, *RCA Review* (March)	1948
2229	"Free Space Microwave Propagation", A. L. Hammerschmidt, *RCA Review* (March)	1948
2230	"Frequency Stabilization with Microwave Spectral Lines", W. D. Hershberger and L. E. Norton, *RCA Review* (March)	1948
2231	"How to Convert a Standard Television Receiver into a Direct-Viewing Video Extension Monitor", E. K. Price, *Broadcast News* (March)	1948
2232	"On the Investigation of Specimen Contamination in the Electron Microscope", J. Hillier, *Jour. Appl. Phys.* (March)	1948
2233	"Planning the Transmitter Building", J. Vassos and S. W. Pike, *Broadcast News* (March)	1948
2234	"Principles of Frequency-Modulated Radar", I. Wolff and D. G. C. Luck, *RCA Review* (March)	1948
2235	"Quality Control of Miniature Tubes", W. L. Van Keuren, *RCA Rad. Serv. News* (March-April)	1948
2236	"Quick Changing of 8D21 Tube", E. H. Potter, *Broadcast News* (March)	1948
2237	"Radio-Frequency Performance of Some Receiving Tubes in Television Circuits", R. M. Cohen, *RCA Review* (March)	1948
2238	RCA TECHNICAL PAPERS—INDEX, Volume II(b) (1947), *RCA Review*, RCA Laboratories Division, Princeton, N. J. (March)	1948
2239	"A Remote Control for Radio Tuning", S. Wald, *Radio News* (March)	1948
2240	"Review and Preview of Television", David Sarnoff, *Inter. Photo.* (March)	1948
2241	"Simultaneous Field Strength Recordings on 47.1, 106.5, and 700 Megacycles", W. L. Carlson, *RCA Review* (March)	1948
2242	"Stereoscopic Viewing of Cathode-Ray Tube Presentations", H. Iams, R. L. Burtner, and C. H. Chandler, *RCA Review* (March)	1948
2243	"Tape Relay System for Radiotelegraph Operation", S. Sparks and R. G. Kreer, *Teleg. and Teleph. Age* (March and April)	1948
	Reprinted from *RCA Review* (September)	1947
2244	"Television DC Component", K. R. Wendt, *RCA Review* (March)	1948
2245	"Triplexed Antenna System at WNBW/WRC-FM", L. J. Wolfe, *Broadcast News* (March)	1948
2246	"TT-5A Television Transmitter", C. D. Kentner, *Broadcast News* (March)	1948
2247	"WNBW and WRC-FM, NBC, Washington", R. F. Guy, *Broadcast News* (March)	1948
2248	"Electronic Timers Employing Thyratrons 2D21 or 2050", *RCA Application Note AN-131*, RCA Tube Department, Harrison, N. J. (March 1)	1948
2249	"High-Efficiency Loud Speakers for Personal Radio Receivers", J. C. Bleazey, J. Preston, and H. F. Olson, *RCA Licensee Bulletin LB-746* (March 10)	1948
2250	"An Accurate Photo Timer", W. C. Morrison, *American Photographer* (April)	1948
2251	"Continuous Tropospheric Soundings by Radar", A. W. Friend, *Proc. I.R.E.* (Letter to the Editor) (April)	1948
2252	"An Electronic Simultaneous Equation Solver", E. A. Goldberg and G. W. Brown, *Jour. Appl. Phys.* (April)	1948
2253	"Liquid Dielectrics for Variable Condensers", S. Wald, *Radio News* (April)	1948

No.		Year
2254	"The Magic of Making Television Picture Tubes", Pamphlet, RCA Department of Information, New York, N. Y. (April)	1948
2255	"Minimum Detectable Absorption in Microwave Spectroscopy and an Analysis of the Stark Modulation Method", W. D. Hershberger, *Jour. Appl. Phys.* (April)	1948
2256	"Note on Ultraviolet Absorption of Zinc Oxide Phosphors", F. H. Nicoll, *Jour. Opt. Soc. Amer.* (Letter to the Editor) (April)	1948
2257	"TV Field Equipment", J. M. Brumbaugh, *FM and Tele.* (April)	1948
2258	"Dynamic Operating Conditions in Video Amplifiers", Frank Mural, *RCA Licensee Bulletin LB-750* (April 20)	1948
2259	"Acoustic Problems in Studio Design", G. M. Nixon, *Electronics* (May)	1948
2260	"Clickless Keying Using V-R Tubes", by A. M. Seybold, *CQ* (May)	1948
2261	"Four-Channel Re-Recording System", H. Randall and F. C. Spielberger, *Jour. Soc. Mot. Pic. Eng.* (May)	1948
2262	"High Power U.H.F. Transmitter", H. C. Lawrence, *Radio News* (May)	1948
2263	"How to Use the Television Stabilizing Amplifier", J. H. Roe, *Broadcast News* (May)	1948
2264	"Microwave Propagation Experiments", L. E. Thompson, *Proc. I.R.E.* (May)	1948
2265	"Midget Field Intensity Meter for the AM Broadcast Band", R. E. Grimm, *Broadcast News* (May)	1948
2266	"Note on Means of Measurement of Output Plate A. C. Voltage of a Television Deflection Circuit During Scanning Interval", J. M. Brumbaugh, *Broadcast News* (May)	1948
2267	"Television Progress", David Sarnoff, *Television* (May)	1948
2268	"Television Service. Part I, Using the Test Pattern", J. R. Meagher, *RCA Rad. Serv. News* (May-June)	1948
2269	"The TP-16A 16mm. Television Projector", R. V. Little, Jr., *Broadcast News* (May)	1948
2270	"Preamplifiers for Television Receivers", R. F. Romero, *RCA Licensee Bulletin LB-748* (May 10)	1948
2271	"Improved Arrangement of Base-Pin Connections in New Miniature Tube Types", *RCA Application Note AN-133*, RCA Tube Department, Harrison, N. J. (May 17)	1948
2272	"Receiver Sensitivity and Gain Measurements at High Frequencies", *RCA Application Note AN-132*, RCA Tube Department, Harrison, N. J. (May 17)	1948
2273	"Incidental Phase Modulation of Television Picture Transmitters", W. R. Alexander and S. W. Seeley, *RCA Licensee Bulletin LB-755* (May 20)	1948
2274	"A 10-Kilovolt Test Probe for Television", J. M. Brumbaugh, *Broadcast News* (May)	1948
2275	"Barium Titanate and Barium Strontium Titanate Resonators", H. L. Donley, *RCA Review* (June)	1948
2276	"Comparative Propagation Measurements; Television Transmitters at 67.25, 288, 510 and 910 Megacycles", G. H. Brown, J. Epstein and D. W. Peterson, *RCA Review* (June)	1948
2277	"Electro-Optical Characteristics of Television Systems. Part II—Electro-Optical Specifications for Television Systems", O. H. Schade, *RCA Review* (June)	1948
2278	"Frequency-Modulated Radar Techniques", I. Wolff and D. G. C. Luck, *RCA Review* (June)	1948
2279	"International Radiotelegraph Communications", S. Sparks, *Elec. Eng.* (June)	1948
2280	"Motion Picture Photography of Television Images", R. M. Fraser, *RCA Review* (June)	1948

No.		*Year*
2281	"Projection Screens for Home Television Receivers", R. R. Law and I. G. Maloff, *Jour. Opt. Soc. Amer.* (June)	1948
2282	"Radiophoto Standards", S. H. Simpson, Jr. and R. E. Hammond, *Teleg. & Teleph. Age* (June)	1948
2283	"Sunspots and Radio Weather", A. Arzinger, H. E. Hallborg and J. H. Nelson, *RCA Review* (June)	1948
2284	"Theoretical Analysis of Various Systems of Multiplex Transmission", V. D. Landon, *RCA Review* (June, September)	1948
2285	"Versatile Noise-Reduction Amplifier", K. Singer, *Jour. Soc. Mot. Pic. Eng.* (June)	1948
2286	"Adjustment of Filament Voltage of RCA 1B3-GT by Observation of Filament Temperature", *RCA Application Note AN-134*, RCA Tube Department, Harrison, N. J. (June 15)	1948
2287	"Single-Section Filament Operation of Types 3S4 and 3V4" *RCA Application Note AN-135*, RCA Tube Department, Harrison, N. J. (June 15)	1948
2288	"A Permeability-Tuned Television Tuner", R. F. Romero, *RCA Licensee Bulletin LB-756* (June 20)	1948
2289	"Chromatic Aberration and Resolving Power in Electron Microscopy", E. G. Ramberg and J. Hillier, *Jour. Appl. Phys.* (July)	1948
2290	"Design Factors for Intercarrier Television Sound", S. W. Seeley, *Electronics* (July)	1948
2291	"Developments in Large-Screen Television", R. V. Little, Jr., *Jour. Soc. Mot. Pic. Eng.* (July)	1948
2292	"Maintenance of Preamp Equipment in Broadcast Transcription —Reproducing Systems", R. G. Peters, *Communications* (July)	1948
2293	"New Test Equipment Speeds Video Servicing", Arthur Liebscher, *Radio News* (July)	1948
	Radio Service Dealer (July)	1948
2294	"Optical Problems in Large-Screen Television", I. G. Maloff, *Jour. Soc. Mot. Pic. Eng.* (July)	1948
2295	"Photometry in Television Engineering", D. W. Epstein, *Electronics* (July)	1948
2296	RADIO AT ULTRA-HIGH-FREQUENCIES, Volume II (1940-1947), RCA Review, RCA Laboratories Division, Princeton, N. J. (July)	1948
2297	"What It Takes for a Good Standards Department", S. H. Watson, *Ind. Standard.* (July)	1948
2298	"Overload Protection for the Horizontal Deflection Circuit in Television Receivers", *RCA Application Note AN-136*, RCA Tube Department, Harrison, N. J. (July 15)	1948
2299	"Reduction in Peak Inverse Voltage Rating of Type 1B3-GT", *RCA Application Note AN-137*, RCA Tube Department, Harrison, N. J. (July 15)	1948
2300	"Continuously Variable Band-Elimination Filter", by Kurt Singer, *Jour. Soc. Mot. Pic. Eng.* (August)	1948
2301	"D. C. Operated Servo Amplifier", Sidney Wald, *Radio News* (August)	1948
2302	"Electron Tube Phonograph Pickup", H. F. Olson, and J. Preston, *Audio Eng.* (August)	1948
2303	"8-Bay Pylon Antenna", by O. O. Fiet, *Broadcast News* (August)	1948
	FM and Tele. (September)	1948
2304	"Automatic Gain Controls for Television Receivers", K. R. Wendt and A. C. Schroeder, *RCA Review* (September)	1948
	RCA Licensee Bulletin LB-757 (September 1)	1948
2305	"The Brightness Intensifier", G. A. Morton, J. E. Ruedy and G. L. Krieger, *RCA Review* (September)	1948
2306	"Details of the Simultaneous Equation Solver", E. A. Goldberg, *RCA Review* (September)	1948

No.		Year
2307	"Electro-Optical Characteristics of Television Systems; Part III—Electro-Optical Characteristics of Camera Systems", O. H. Schade, *RCA Review* (September)	1948
2308	"Engineering Responsibilities in Creating New Products", J. B. Davis and M. M. Brandt, *Prod. Eng.* (September)	1948
2309	"Flexible Low Friction Contact", by Louis Pensak and Meier Sadowsky, *The Chemist Analyst* (September)	1948
2310	"An Optical Bench for Electron Optical Studies", J. H. Reisner & R. G. Picard, *Rev. Sci. Instr.* (September)	1948
2311	"The Pack Transmitter", J. L. Hathaway and W. Hotine, *RCA Review* (September)	1948
2312	"A Peaked Audio Amplifier for Communication Receivers", G. D. Hanchett, Jr., *QST* (September)	1948
2313	"Some Applications of Frequency-Modulated Radar", I. Wolff and D. G. C. Luck, *RCA Review* (September)	1948
2314	"Some Notes on Noise Theory and its Application to Input Circuit Design", W. A. Harris, *RCA Review* (September)	1948
2315	"Temperature Dependence of the Emission Bands of Zinc Oxide Phosphors", by F. H. Nicoll, *Jour. Opt. Soc. Amer.* (September)	1948
2316	"A 150-kw Transmitter for Standard Band Broadcasting", T. J. Boerner, *Elec. Eng.* (September)	1948
2317	"Vapor Pressure Data for Various Substances" R. R. Law, *RCA Licensee Bulletin LB-759* (September 15)	1948
2318	"Ultra-High-Frequency Television Converters", *RCA Licensee Bulletin LB-760* (September 20)	1948
2319	"The Chemistry of High-Speed Electrolytic Facsimile Recording", by H. G. Greig, *Proc. I.R.E.* (October)	1948
2320	"Custom-Built Dual-Recording Console", A. S. Karker, *Broadcast News* (October)	1948
	Communications (November)	1948
2321	"The Dilemma of Specialization", G. M. K. Baker, *Proc. I.R.E.* (Editorial) (October)	1948
2322	"Intermodulation and Harmonic Distortion Measurements", J. Avins, *Audio Eng.* (October)	1948
2323	"New, Lightweight Remote Amplifier", R. C. Abbett, *Broadcast News* (October)	1948
2324	"A New 100-Watt Triode for 1000 Megacycles", by W. P. Bennett, E. A. Eschbach, C. E. Haller, W. R. Keye, *Proc. I.R.E.* (October)	1948
2325	"Oil-Filled Miniature Tuning Capacitors", S. Wald, *Tele-Tech* (October)	1948
2326	"RCA-NBC Views on TV Expansion", E. W. Engstrom, *FM & Tele.* (October)	1948
2327	"Single-Sideband Crystal Filters", P. K. Taylor, *Electronics* (October)	1948
2328	"A Novel Ten-Inch Television Receiver", W. J. Stolze and E. I. Anderson, *RCA Licensee Bulletin LB-761* (October 1)	1948
2329	"Spurious Multiple Responses in FM Receivers", Frank Mural, *RCA Licensee Bulletin LB-762* (October 20)	1948
2330	"An A.C.-D.C. Receiver for AM and FM" W. A. Harris and R. F. Dunn, *Radio News* (November)	1948
2331	"Aircraft Antennas. Part II—How to Use Charts to Find Reactance and Resistance of Fore and Aft, Trailing, Vertical, Center-Fed V and Off-Center-Fed V Aircraft Antennas", S. Wald, *Communications* (November)	1948
2332	"Duplex Tetrode UHF Power Tubes", by P. T. Smith, H. R. Hegbar, *Proc. I.R.E.* (November)	1948
2333	"Electron Micrograph Studies of Two Strains of Pleuropneumonia-like (L) Organisms of Human Derivation", J. Hillier (Coauthor), *Journal of Bacteriology* (November)	1948

No.		*Year*
2334	"The Impedance of Aircraft Antennas", Sidney Wald, *Communications* (November)	1948
2335	"L-Type Variation and Bacterial Reproduction by Large Bodies as Seen in Electron Micrographic Studies of Bacteriodes Funduliformis", J. Hillier (Coauthor), *Journal of Bacteriology* (November)	1948
2336	"Magnetic Recording for the Technician", Dorothy O'Dea, *Jour. Soc. Mot. Pic. Eng.* (November)	1948
2337	"New Preparation Techniques for the Electron Microscopy of Bacteria", J. Hillier (Coauthor), *Journal of Bacteriology* (November)	1948
2338	"Optimum High-Frequency Bias in Magnetic Recording", G. L. Dimmick and S. W. Johnson, *Jour. Soc. Mot. Pic. Eng.* (November)	1948
2339	"Stability versus Chaos", A. N. Goldsmith, *Television* (November)	1948
2340	"Using TV Test Patterns", John R. Meagher, *Radio-Electronics* (November)	1948
2341	"35-Mm. Magnetic Recording System", E. Masterson, *Jour. Soc. Mot. Pic. Eng.* (November)	1948
2342	"500 Watt TV Transmitter", M. L. Gaskill, *Tele-Tech* (November)	1948
2343	"Analysis of a Simple Model of Two-Beam Growing-Wave Tube", L. S. Nergaard, *RCA Review* (December)	1948
2344	"Colorimetry in Television", W. H. Cherry, *Jour. Soc. Mot. Pic. Eng.* (December)	1948
2345	"Developmental Television Transmitter for 500-900 Megacycles", R. R. Law, W. B. Whalley, and R. P. Stone, *RCA Review* (December)	1948
2346	"Electro-Optical Characteristics of Television Systems; Part IV—Correlation and Evaluation of Electro-Optical Characteristics of Imaging Systems", O. H. Schade, *RCA Review* (December)	1948
2347	"Field Test of Ultra-High-Frequency Television in the Washington Area", G. H. Brown, *RCA Review* (December)	1948
2348	"Flying Spot Scanner for Television", Donald Pike, *Broad. Eng. Jour.* (December)	1948
2349	"Homing and Navigational Courses of Automatic Target-Seeking Devices", Luke Chia-Liu Yuan, *Jour. Appl. Phys.* (December)	1948
2350	"Improved Optical Reduction Sound Printer", J. L. Pettus, *Jour. Soc. Mot. Pic. Eng.* (December)	1948
2351	"Microwave Optics Between Parallel Conducting Sheets", H. B. DeVore and Harley Iams, *RCA Review* (December)	1948
2352	"Multi-Channel Radio-Telegraph System for High-Frequency Circuits", T. E. Jacobi, *RCA Review* (December)	1948
2353	"Performance of 931-A Type Multiplier in a Scintillation Counter", G. A. Morton and J. A. Mitchell, *RCA Review* (December)	1948
2353a	"Planning Radio and Television Studios", G. M. Nixon, *Broadcast News* (December)	1948
2353b	"Practical Equipment Layouts for Television Stations", *Broadcast News* (December)	1948
2354	"Precision Interval Timer", Sidney Wald, *Electronics* (December)	1948
2355	"Relation Between Amplitude and Phase in Electrical Networks", T. Murakami and M. S. Corrington, *RCA Review* (December)	1948
2356	"Remote Control for Radio Tuning", S. Wald, *Electronics* (December)	1948

No.		*Year*
2357	"Sensitometric Aspect of Television Monitor-Tube Photography", F. G. Albin, *Jour. Soc. Mot. Pic. Eng.* (December) ...	1948
2357a	"Scale Models Made from Paper Cutouts Aid TV Station Planning", M. L. Gaskill, *Broadcast News* (December)....	1948
2358	"A Technique for the Making and Mounting of Fine Mesh Screens", H. B. Law, *Rev. Sci. Instr.* (December).....	1948
2359	"Television Antennas and Transmission Lines", J. R. Meagher, *RCA Rad. Serv. News* (November-December)	1948
2360	"The Transitrol, An Experimental Automatic-Frequency-Control Tube", J. Kurshan, *RCA Review* (December)	1948
2361	"Vapor Pressure Data for Various Substances (A Graphical Presentation)", R. R. Law, *Rev. Sci. Instr.* (December) ...	1948
2362	"Wide-Band I-F Alignment by Alternate Loading", R. G. Middleton, *RCA Rad. Serv. News* (November-December).....	1948
2363	"Radio—Scientific Developments Television—U.S.A.", G. L. Beers, SECTION OF ENCYCLOPAEDIA BRITANNICA YEAR BOOK (Spring)	1948
2364	"Television Today", F. W. Wentker, *Transmitter* (Spring)...	1948
2365	"Excitation and Emission Phoenomena in Phosphors", H. W. Leverenz, SECTION OF PREPARATION AND CHARACTERISTICS OF SOLID LUMINESCENT MATERIALS, John Wiley & Sons, Inc., New York, N. Y.....	1948
2366	"Some Observations on Light Absorption of Powdered Luminescent Materials", F. H. Nicoll, SECTION OF PREPARATION AND CHARACTERISTICS OF SOLID LUMINESCENT MATERIALS, John Wiley & Sons, Inc., New York, N. Y.	1948
2367	"Zinc: Cadmium-Sulfide: Selenide Phosphors—Part I: Synthesis and Constitution", H. W. Leverenz, E. J. Wood, S. Lasof, and R. E. Shrader, SECTION OF PREPARATION AND CHARACTERISTICS OF SOLID LUMINESCENT MATERIALS, John Wiley & Sons, Inc., New York, N. Y.....	1948
2368	"Zinc: Cadmium-Sulfide: Selenide Phosphors—Part II: Photoluminescence and Cathodoluminescence as a Function of Temperature; Crystal Structure; Diffuse Reflectivity; and Photolysis", S. Lasof, R. E. Shrader, and H. W. Leverenz, SECTION OF PREPARATION AND CHARACTERISTICS OF SOLID LUMINESCENT MATERIALS, John Wiley & Sons, Inc., New York, N. Y.....	1948
2369	"Zinc: Cadmium-Sulfide: Selenide Phosphors—Part III: Spectral Emission Characteristics and Relative Intensities", R. E. Shrader, S. Lasof, and H. W. Leverenz, SECTION OF PREPARATION AND CHARACTERISTICS OF SOLID LUMINESCENT MATERIALS, John Wiley & Sons, Inc., New York, N. Y.	1948
2370	UNDERSTANDING TELEVISION, Orrin E. Dunlap, Jr., Greenberg: Publisher, New York, N. Y.....	1948

RCA TECHNICAL PAPERS
(1948)

ALPHABETICAL INDEX

A

No.		*Year*
2330	"An A.C.-D.C. Receiver for AM and FM", W. A. Harris and R. F. Dunn, *Radio News* (November)	1948
2250	"An Accurate Photo Timer", W. C. Morrison, *American Photographer* (April)	1948
2259	"Acoustic Problems in Studio Design", G. M. Nixon, *Electronics* (May)	1948
2286	"Adjustment of Filament Voltage of RCA 1B3-GT by Observation of Filament Temperature", *RCA Application Note AN-134*, RCA Tube Department, Harrison, N. J. (June 15)	1948
2331	"Aircraft Antennas. Part II—How to Use Charts to Find Reactance and Resistance of Fore and Aft, Trailing, Vertical, Center-Fed V and Off-Center-Fed V Aircraft Antennas", S. Wald, *Communications* (November)	1948
2343	"Analysis of a Simple Model of Two-Beam Growing-Wave Tube", L. S. Nergaard, *RCA Review* (December)	1948
2215	"Antenna Design for Low-Angle FM Propagation", O. O. Fiet, *Tele-Tech* (February)	1948
2205	"Antenna Facts", R. L. Rod, *CQ* (January)	1948
2304	"Automatic Gain Controls for Television Receivers", K. R. Wendt and A. C. Schroeder, *RCA Review* (September)	1948
	RCA Licensee Bulletin LB-757 (September 1)	1948

B

2275	"Barium Titanate and Barium Strontium Titanate Resonators", H. L. Donley, *RCA Review* (June)	1948
2226	"Barrier Grid Storage Tube and Its Operation", A. S. Jensen, J. P. Smith, M. H. Mesner, and L. E. Flory, *RCA Review* (March)	1948
2305	"The Brightness Intensifier", G. A. Morton, J. E. Ruedy and G. L. Krieger, *RCA Review* (September)	1948
2216	"Broadcasting Studio Pickup Technique", H. M. Gurin, *Audio Engineering* (February)	1948

C

2319	"The Chemistry of High-Speed Electrolytic Facsimile Recording", H. G. Greig, *Proc. I.R.E.* (October)	1948
2289	"Chromatic Aberration and Resolving Power in Electron Microscopy", E. G. Ramberg and J. Hillier, *Jour. Appl. Phys.* (July)	1948

No.		Year
2214	"Circuit Design Precautions to Prevent Internal Arcs from Damaging Kinescopes", *RCA Application Note AN-128*, RCA Tube Department, Harrison, N. J. (January 15)	1948
2260	"Clickless Keying Using V-R Tubes", A. M. Seybold, *CQ* (May)	1948
2344	"Colorimetry in Television", W. H. Cherry, *Jour. Soc. Mot. Pic. Eng.* (December)	1948
2276	"Comparative Propagation Measurements; Television Transmitters at 67.25, 288, 510 and 910 Megacycles", G. H. Brown, J. Epstein and D. W. Peterson, *RCA Review* (June)	1948
2251	"Continuous Tropospheric Soundings by Radar", A. W. Friend, *Proc. I.R.E.* (Letter to the Editor) (April)	1948
2300	"Continuously Variable Band-Elimination Filter", Kurt Singer, *Jour. Soc. Mot. Pic. Eng.* (August)	1948
2320	"Custom-built Dual-Recording Console", A. S. Karker, *Broadcast News* (October)	1948
	Communications (November)	1948

D

2301	"D.C. Operated Servo Amplifier", Sidney Wald, *Radio News* (August)	1948
2290	"Design Factors for Intercarrier Television Sound", S. W. Seeley, *Electronics* (July)	1948
2306	"Details of the Simultaneous Equation Solver", E. A. Goldberg, *RCA Review* (September)	1948
2227	"A Developmental Pulse Triode for 200 Kw. Output at 600 Mc.", L. S. Nergaard, D. G. Burnside, and R. P. Stone, *Proc. I.R.E.* (March)	1948
2345	"Developmental Television Transmitter for 500-900 Megacycles", R. R. Law, W. B. Whalley, and R. P. Stone, *RCA Review* (December)	1948
2291	"Developments in Large-Screen Television", R. V. Little, Jr., *Jour. Soc. Mot. Pic. Eng.* (July)	1948
2321	"The Dilemma of Specialization", G. M. K. Baker, *Proc. I.R.E.* (Editorial), (October)	1948
2332	"Duplex Tetrode UHF Power Tubes", P. T. Smith and H. R. Hegbar, *Proc. I.R.E.* (November)	1948
2258	"Dynamic Operating Conditions in Video Amplifiers", Frank Mural, *RCA Licensee Bulletin LB-750* (April 20)	1948

E

2333	"Electron Micrograph Studies of Two Strains of Pleuropneumonia-like (L) Organisms of Human Derivation", J. Hillier (Coauthor), *Journal of Bacteriology* (November)	1948
2302	"Electron Tube Phonograph Pickup", H. F. Olson, and J. Preston, *Audio Eng.* (August)	1948
2252	"An Electronic Simultaneous Equation Solver", E. A. Goldberg and G. W. Brown, *Jour. Appl. Phys.* (April)	1948
2248	"Electronic Timers Employing Thyratrons 2D21 or 2050", *RCA Application Note AN-131*, RCA Tube Department, Harrison, N. J. (March 1)	1948
2228	"Electro-Optical Characteristics of Television Systems: Introduction; Part I—Characteristics of Vision and Visual Systems", O. H. Schade, *RCA Review* (March)	1948

No.		*Year*
2277	"Electro-Optical Characteristics of Television Systems. Part II—Electro-Optical Specifications for Television Systems", O. H. Schade, *RCA Review* (June)	1948
2307	"Electro-Optical Characteristics of Television Systems. Part III—Electro-Optical Characteristics of Camera Systems", O. H. Schade, *RCA Review* (September)	1948
2346	"Electro-Optical Characteristics of Television Systems: Part IV—Correlation and Evaluation of Electro-Optical Characteristics of Imaging Systems", O. H. Schade, *RCA Review* (December)	1948
2308	"Engineering Responsibilities In Creating New Products", J. B. Davis and M. M. Brandt, *Prod. Eng.* (September)	1948
2365	"Excitation and Emission Phenomena in Phosphors", H. W. Leverenz, SECTION OF PREPARATION AND CHARACTERISTICS OF SOLID LUMINESCENT MATERIALS, John Wiley & Sons, Inc., New York, N. Y.	1948

F

2347	"Field Test of Ultra-High-Frequency Television in the Washington Area", G. H. Brown, *RCA Review* (December)	1948
2309	"Flexible Low Friction Contact", Louis Pensak and Meier Sadowsky, *The Chemist Analyst* (September)	1948
2348	"Flying Spot Scanner for Television", Donald Pike, *Broad. Eng. Jour.* (December)	1948
2261	"Four-Channel Re-Recording System", H. Randall and F. C. Spielberger, *Jour. Soc. Mot. Pic. Eng.* (May)	1948
2229	"Free Space Microwave Propagation", A. L. Hammerschmidt, *RCA Review* (March)	1948
2278	"Frequency-Modulated Radar Techniques", I. Wolff and D. G. C. Luck, *RCA Review* (June)	1948
2206	FREQUENCY MODULATION, Volume I, RCA Review, RCA Laboratories Division, Princeton, N. J. (January)	1948
2230	"Frequency Stabilization with Microwave Spectral Lines", W. D. Hershberger and L. E. Norton, *RCA Review* (March)	1948

H

2249	"High-Efficiency Loud Speakers For Personal Radio Receivers", J. C. Bleazey, J. Preston, and H. F. Olson, *RCA Licensee Bulletin LB-746* (March 10)	1948
2262	"High Power U.H.F. Transmitter", H. C. Lawrence, *Radio News* (May)	1948
2217	"High-Speed Servicing", A. Liebscher, *Radio Service Dealer* (February)	1948
	RCA Rad. Serv. News (March-April)	1948
2349	"Homing and Navigational Courses of Automatic Target-Seeking Devices", Luke Chia-Liu Yuan, *Jour. Appl. Phys.* (December)	1948
2231	"How to Convert a Standard Television Receiver into a Direct-Viewing Video Extension Monitor", E. K. Price, *Broadcast News* (March)	1948
2263	"How to Use the Television Stabilizing Amplifier", J. H. Roe, *Broadcast News* (May)	1948

I

No.		Year
2334	"The Impedance of Aircraft Antennas", Sidney Wald, *Communications* (November)	1948
2271	"Improved Arrangement of Base-Pin Connections in New Miniature Tube Types", *RCA Application Note AN-133*, RCA Tube Department, Harrison, N. J. (May 17)	1948
2350	"Improved Optical Reduction Sound Printer", J. L. Pettus, *Jour. Soc. Mot. Pic. Eng.* (December)	1948
2273	"Incidental Phase Modulation of Television Picture Transmitters", W. R. Alexander and S. W. Seeley, *RCA Licensee Bulletin LB-755* (May 20)	1948
2322	"Intermodulation and Harmonic Distortion Measurements", J. Avins, *Audio Engineering* (October)	1948
2279	"International Radiotelegraph Communications", S. Sparks, *Elec. Eng.* (June)	1948

L

2335	"L-Type Variation and Bacterial Reproduction by Large Bodies As Seen in Electron Micrographic Studies of Bacteriodes Funduliformis", J. Hillier (Coauthor), *Journal of Bacteriology* (November)	1948
2253	"Liquid Dielectrics for Variable Condensers", S. Wald, *Radio News* (April)	1948

M

2254	"The Magic of Making Television Picture Tubes", Pamphlet, RCA Department of Information, New York, N. Y. (April)	1948
2336	"Magnetic Recording for the Technician", Dorothy O'Dea, *Jour. Soc. Mot. Pic. Eng.* (November)	1948
2292	"Maintenance of Preamp Equipment in Broadcast Transcription—Reproducing Systems", R. G. Peters, *Communications* (July)	1948
2351	"Microwave Optics Between Parallel Conducting Sheets", H. B. DeVore and Harley Iams, *RCA Review* (December)	1948
2264	"Microwave Propagation Experiments", L. E. Thompson, *Proc. I.R.E.* (May)	1948
2265	"Midget Field Intensity Meter for the AM Broadcast Band", R. E. Grimm, *Broadcast News* (May)	1948
2255	"Minimum Detectable Absorption in Microwave Spectroscopy and an Analysis of the Stark Modulation Method", W. D. Hershberger, *Jour. Appl. Phys.* (April)	1948
2280	"Motion Picture Photography of Television Images", R. M. Fraser, *RCA Review* (June)	1948
2352	"Multi-Channel Radio-Telegraph System for High-Frequency Circuits", T. E. Jacobi, *RCA Review* (December)	1948

N

2323	"New, Lightweight Remote Amplifier", R. C. Abbett, *Broadcast News* (October)	1948
2337	"New Preparation Techniques for the Electron Microscopy of Bacteria", J. Hillier (Coauthor), *Journal of Bacteriology* (November)	1948

No. *Year*

2293 "New Test Equipment Speeds Video Servicing", Arthur Liebscher, *Radio News* (July) 1948
Radio Service Dealer (July) 1948
2207 "A New Variable-Area Recorder Optical System", J. L. Pettus and L. T. Sachtleben, *Jour. Soc. Mot. Pic. Eng.* (January) .. 1948
2324 "A New 100-Watt Triode for 1000 Megacycles", W. P. Bennett, E. A. Eschbach, C. E. Haller, and W. R. Keye, *Proc. I.R.E.* (October) 1948
2266 "Note on Means of Measurement of Output Plate A.C. Voltage of a Television Deflection Circuit During Scanning Interval", J. M. Brumbaugh, *Broadcast News* (May) 1948
2256 "Note on Ultraviolet Absorption of Zinc Oxide Phosphors", F. H. Nicoll, *Jour. Opt. Soc. Amer.* (Letter to the Editor) (April) 1948
2328 "A Novel Ten-Inch Television Receiver", W. J. Stolze and E. I. Anderson, *RCA Licensee Bulletin LB-761* (October 1) 1948

O

2325 "Oil-Filled Miniature Tuning Capacitors", S. Wald, *Tele-Tech.* (October) 1948
2232 "On the Investigation of Specimen Contamination in the Electron Microscope", J. Hillier, *Jour. Appl. Phys.* (March) 1948
2310 "An Optical Bench for Electron Optical Studies", J. H. Reisner and R. G. Picard, *Rev. Sci. Instr.* (September) 1948
2294 "Optical Problems in Large-Screen Television", I. G. Maloff, *Jour. Soc. Mot. Pic. Eng.* (July) 1948
2218 "Optical Problems in Theatre Television", I. G. Maloff, *RCA Service Company News* (February) 1948
2338 "Optimum High-Frequency Bias in Magnetic Recording", G. L. Dimmick and S. W. Johnson, *Jour. Soc. Mot. Pic. Eng.* (November) 1948
2298 "Overload Protection for the Horizontal Deflection Circuit in Television Receivers", *RCA Application Note AN-136*, RCA Tube Department, Harrison, N. J. (July 15) 1948

P

2311 "The Pack Transmitter", J. L. Hathaway and W. Hotine, *RCA Review* (September) 1948
2312 "A Peaked Audio Amplifier for Communication Receivers", G. D. Hanchett, Jr., *QST* (September) 1948
2353 "Performance of 931-A Type Multiplier in a Scintillation Counter", G. A. Morton and J. A. Mitchell, *RCA Review* (December) 1948
2288 "A Permeability-Tuned Television Tuner", R. F. Romero, *RCA Licensee Bulletin LB-756* (June 20) 1948
2295 "Photometry in Television Engineering", D. W. Epstein, *Electronics* (July) 1948
2353a "Planning Radio and Television Studios", G. M. Nixon, *Broadcast News* (December) 1948
2233 "Planning the Transmitter Building", J. Vassos and S. W. Pike, *Broadcast News* (March) 1948
2353b "Practical Equipment Layouts for Television Stations", *Broadcast News* (December) 1948

No.		Year
2270	"Preamplifiers For Television Receivers", R. F. Romero, *RCA Licensee Bulletin LB-748* (May 10)	1948
2354	"Precision Interval Timer", Sidney Wald, *Electronics* (December)	1948
2234	"Principles of Frequency-Modulated Radar", I. Wolff and D. G. C. Luck, *RCA Review* (March)	1948
2208	"Progress in Television", V. K. Zworykin, *Radio Craft* (January)	1948
2281	"Projection Screens for Home Television Receivers", R. R. Law and I. G. Maloff, *Jour. Opt. Soc. Amer.* (June)	1948
2224	"Pulse-Operated High-Voltage Power Supply for Television Receivers", *RCA Application Note AN-130*, RCA Tube Department, Harrison, N. J. (February 16)	1948

Q

2235	"Quality Control of Miniature Tubes", W. L. Van Keuren, *RCA Rad. Serv. News* (March-April)	1948
2236	"Quick Changing of 8D21 Tube", E. H. Potter, *Broadcast News* (March)	1948

R

2296	RADIO AT ULTRA-HIGH-FREQUENCIES, Volume II (1940-1947), RCA Review, RCA Laboratories Division, Princeton, N. J. (July)	1948
2237	"Radio-Frequency Performance of Some Receiving Tubes in Television Circuits", R. M. Cohen, *RCA Review* (March)	1948
2363	"Radio—Scientific Developments Television—U.S.A.", G. L. Beers, SECTION OF ENCYCLOPAEDIA BRITANNICA YEAR BOOK, Spring	1948
2282	"Radiophoto Standards", S. H. Simpson, Jr. and R. E. Hammond, *Teleg. & Teleph. Age* (June)	1948
2326	"RCA-NBC Views on TV Expansion", E. W. Engstrom, *FM & Tele.*, (October)	1948
2223	"RCA 'Special Red' Tubes for Industrial Applications", *RCA Application Note AN-129*, RCA Tube Department, Harrison, N. J. (February 2)	1948
2238	RCA TECHNICAL PAPERS—INDEX, Volume II(b) (1947), *RCA Review*, RCA Laboratories Division, Princeton, N. J. (March)	1948
2272	"Receiver Sensitivity and Gain Measurements at High Frequencies", *RCA Application Note AN-132*, RCA Tube Department, Harrison, N. J. (May 17)	1948
2299	"Reduction in Peak Inverse Voltage Rating of Type 1B3-GT", *RCA Application Note AN-137*, RCA Tube Department, Harrison, N. J. (July 15)	1948
2355	"Relation Between Amplitude and Phase in Electrical Networks", T. Murakami and M. S. Corrington, *RCA Review* (December)	1948
2239	"A Remote Control for Radio Tuning", S. Wald, *Radio News* (March)	1948
2356	"Remote Control for Radio Tuning", S. Wald, *Electronics* (December)	1948
2240	"Review and Preview of Television", David Sarnoff, *Inter. Photo.* (March)	1948

S

No. *Year*

2357a "Scale Models Made from Paper Cutouts Aid TV Station Planning", M. L. Gaskill, *Broadcast News* (December) 1948
2219 "The Sensitivity Performance of the Human Eye on an Absolute Scale", A. Rose, *Jour. Opt. Soc. Amer.* (February) 1948
2357 "Sensitometric Aspect of Television Monitor-Tube Photography", F. G. Albin, *Jour. Soc. Mot. Pic. Eng.* (December) 1948
2209 "Servicing FM Receivers; Part IV—Special Circuits", M. Kaufman, *Radio Maintenance* (January) 1948
2241 "Simultaneous Field Strength Recordings on 47.1, 106.5, and 700 Megacycles", W. L. Carlson, *RCA Review* (March) 1948
2287 "Single-Section Filament Operation of Types 3S4 and 3V4", *RCA Application Note AN-135*, RCA Tube Department, Harrison, N. J. (June 15) 1948
2327 "Single-Sideband Crystal Filters", P. K. Taylor, *Electronics* (October) 1948
2313 "Some Applications of Frequency-Modulated Radar", I. Wolff and D. G. C. Luck, *RCA Review* (September) 1948
2314 "Some Notes on Noise Theory and its Application to Input Circuit Design", W. A. Harris, *RCA Review* (September) .. 1948
2366 "Some Observations on Light Absorption of Powdered Luminescent Materials", F. H. Nicoll, SECTION OF PREPARATION AND CHARACTERISTICS OF SOLID LUMINESCENT MATERIALS, John Wiley & Sons, Inc., New York, N. Y... 1948
2220 "Sound Reinforcement in the Hollywood Bowl", M. Rettinger and S. M. Stevens, *Audio Eng.* (February) 1948
2210 "Sound Service Is Not a Luxury", E. Stanko, *Theatre Catalog 1948* (January) 1948
2329 "Spurious Multiple Responses In FM Receivers", Frank Mural, *RCA Licensee Bulletin LB-762* (October 20) 1948
2339 "Stability versus Chaos", A. N. Goldsmith, *Television* (November) 1948
2242 "Stereoscopic Viewing of Cathode-Ray Tube Presentations", H. Iams, R. L. Burtner, and C. H. Chandler, *RCA Review* (March) 1948
2283 "Sunspots and Radio Weather", A. Arzinger, H. E. Hallborg and J. H. Nelson, *RCA Review* (June) 1948

T

2243 "Tape Relay System for Radiotelegraph Operation", S. Sparks and R. G. Kreer, *Teleg. and Teleph. Age* (March and April) 1948
Reprinted from *RCA Review* (September) 1947
2358 "A Technique for the Making and Mounting of Fine Mesh Screens", H. B. Law, *Rev. Sci. Instr.* (December) 1948
2211 "Teleran", W. W. Watts, *Signals* (January-February) 1948
2359 "Television Antennas and Transmission Lines", J. R. Meagher, *RCA Rad. Serv. News* (November-December) 1948
2225 "The Television DC Component", K. R. Wendt, *RCA Licensee Bulletin LB-745* (February 20) 1948
2244 "Television DC Component", K. R. Wendt, *RCA Review* (March) 1948
2267 "Television Progress", David Sarnoff, *Television* (May) 1948
2268 "Television Service. Part I, Using the Test Pattern", J. R. Meagher, *RCA Rad. Serv. News* (May-June) 1948
2364 "Television Today", F. W. Wentker, *Transmitter* (Spring) 1948
2315 "Temperature Dependence of the Emission Bands of Zinc Oxide Phosphors", F. H. Nicoll, *Jour. Opt. Soc. Amer.* (September) 1948

No.		Year
2221	"Theater Television—a General Analysis", A. N. Goldsmith, *Jour. Soc. Mot. Pic. Eng.* (February)	1948
	Inter. Project. (April, May, June, July)	1948
2212	"Theatre Television Prospects", A. N. Goldsmith, *Inter. Project.* (January)	1948
2284	"Theoretical Analysis of Various Systems of Multiplex Transmissions", V. D. Landon, *RCA Review* (June, September)	1948
2269	"The TP-16A 16mm. Television Projector", R. V. Little, Jr., *Broadcast News* (May)	1948
2360	"The Transitrol, An Experimental Automatic-Frequency-Control Tube", J. Kurshan, *RCA Review* (December)	1948
2245	"Triplexed Antenna System at WNBW/WRC-FM", L. J. Wolfe, *Broadcast. News* (March)	1948
2246	"TT-5A Television Transmitter", C. D. Kentner, *Broadcast News* (March)	1948
2213	"A Tube Complement for AC/DC AM/FM Receivers", *RCA Application Note AN-127*, RCA Tube Department, Harrison, N. J. (January 2)	1948
2257	"TV Field Equipment", J. M. Brumbaugh, *FM and Tele.* (April)	1948

U

2318	"Ultra-High-Frequency Television Converters", *RCA Licensee Bulletin LB-760* (September 20)	1948
2370	UNDERSTANDING TELEVISION, Orrin E. Dunlap, Jr. Greenberg, Publisher, New York, N. Y.	1948
2340	"Using TV Test Patterns", John R. Meagher, *Radio-Electronics* (November)	1948

V

2317	"Vapor Pressure Data for Various Substances", R. R. Law, *RCA Licensee Bulletin LB-759* (September 15)	1948
2361	"Vapor Pressure Data for Various Substances (A Graphical Presentation)", R. R. Law, *Rev. Sci. Instr.* (December)	1948
2285	"Versatile Noise-Reduction Amplifier", K. Singer, *Jour. Soc. Mot. Pic. Eng.* (June)	1948

W

2297	"What It Takes for a Good Standards Department", S. R. Watson, *Ind. Standard.* (July)	1948
2362	"Wide-Band I-F Alignment by Alternate Loading", R. G. Middleton, *RCA Rad. Serv. News* (November-December)	1948
2247	"WNBW and WRC-FM, NBC, Washington", R. F. Guy, *Broadcast News* (March)	1948
2222	"Working in Research", Pamphlet, RCA Laboratories Division, Princeton, N. J. (February)	1948

Z

2367	"Zinc: Cadmium-Sulfide: Selenide Phosphors—Part I: Synthesis and Constitution", H. W. Leverenz, E. J. Wood, S. Lasof, and R. E. Shrader, SECTION OF PREPARATION AND CHARACTERISTICS OF SOLID LUMINESCENT MATERIALS, John Wiley & Sons, Inc., New York, N. Y.	1948

No. *Year*

2368 "Zinc: Cadmium-Sulfide: Selenide Phosphors—Part II: Photoluminescence and Cathodoluminescence as a Function of Temperature; Crystal Structure; Diffuse Reflectivity; and Photolysis", S. Lasof, R. E. Schrader, and H. W. Leverenz. SECTION OF PREPARATION AND CHARACTERISTICS OF SOLID LUMINESCENT MATERIALS, John Wiley & Sons, Inc., New York, N. Y. 1948

2369 "Zinc: Cadmium-Sulfide: Selenide Phosphors—Part III: Spectral Emission Characteristics and Relative Intensities", R. E. Shrader, S. Lasof, and H. W. Leverenz, SECTION OF PREPARATION AND CHARACTERISTICS OF SOLID LUMINESCENT MATERIALS, John Wiley & Sons, Inc., New York, N. Y. 1948

Miscellaneous

2303 "8-Bay Pylon Antenna", O. O. Fiet, *FM and Television* (September) 1948

Broadcast News (August) 1948

2274 "A 10-Kilovolt Test Probe for Television", J. M. Brumbaugh, *Broadcast News* (May) 1948

2341 "35-Mm. Magnetic Recording System", E. Masterson, *Jour. Soc. Mot. Pic. Eng.* (November) 1948

2316 "A 150-kw Transmitter for Standard Band Broadcasting", T. J. Boerner, *Elect. Eng.* (September) 1948

2342 "500 Watt TV Transmitter", M. L. Gaskill, *Tele-Tech* (November) 1948

AUTHOR INDEX

Numbers refer to Chronological Index

A

Abbett, R. C., 2323
Albin, F. G., 2357
Alexander, W. R. 2273
Anderson, E. I., 2328
Arzinger, A., 2283
Avins, J. 2322

B

Baker, G. M. K., 2321
Beers, G. L., 2363
Bennett, W. P., 2324
Bleazey, J. C., 2249
Boerner, T. J., 2316
Brandt, M. M., 2308
Brown, G. H., 2276, 2347
Brown, G. W., 2252
Brumbaugh, J. M., 2257, 2266, 2274
Burnside, D. G., 2227
Burtner, R. L., 2242

C

Carlson, W. L., 2241
Chandler, C. H., 2242
Cherry, W. H., 2344
Cohen, R. M., 2237
Corrington, M. S., 2355

D

Davis, J. B., 2308
DeVore, H. B., 2351
Dimmick, G. L., 2338
Donley, H. L., 2275
Dunlap, O. E., Jr., 2370
Dunn, R. F., 2330

E

Engstrom, E. W., 2326
Epstein, D. W., 2295
Epstein, J., 2276
Eschbach, E. A., 2324

F

Fiet, O. O., 2215, 2303
Flory, L. E., 2226
Fraser, R. M., 2280
Friend, A. W., 2251

G

Gaskill, M. L., 2342, 2357a
Goldberg, E. A., 2252, 2306
Goldsmith, A. N., 2212, 2221, 2339
Greig, H. G., 2319
Grimm, R. E., 2265
Gurin, H. M., 2216
Guy, R. F., 2247

H

Hallborg, H. E., 2283
Haller, C. E., 2324
Hammerschmidt, A. L., 2229
Hammond, R. E., 2282
Hanchett, G. D., 2312
Harris, W. A., 2314, 2330
Hathaway, J. L., 2311
Hegbar, H. R., 2332
Herschberger, W. D., 2230, 2255
Hillier, J., 2232, 2289, 2333, 2335, 2337
Hotine, W., 2311

I

Iams, Harley, 2242, 2351

J

Jacobi, T. E., 2352
Jensen, A. S., 2226
Johnson, S. W., 2338

K

Karker, A. S., 2320
Kaufman, M., 2209
Kentner, C. D., 2246
Keye, W. R., 2324
Kreer, R. G., 2243
Krieger, G. L., 2305
Kurshan, J., 2360

L

Landon, V. D., 2284
Lasof, S., 2367, 2368, 2369
Law, H. B., 2358
Law, R. R., 2281, 2317, 2345, 2361
Lawrence, H. C., 2262
Leverenz, H. W., 2365, 2367, 2368, 2369
Liebscher, A., 2217, 2293
Little, R. V., Jr., 2269, 2291
Luck, D. G. C., 2234, 2278, 2313

M

Maloff, I. G., 2218, 2281, 2294
Masterson, E., 2341
Meagher, J. R., 2268, 2340, 2359
Mesner, M. H., 2226
Middleton, R. G., 2362
Mitchell, J. A., 2353
Morrison, W. C., 2250
Morton, G. A., 2305, 2353
Murakami, T., 2355
Mural, Frank, 2258, 2329

N

Nelson, J. H., 2283
Nergaard, L. S., 2227, 2343
Nicoll, F. H., 2256, 2315, 2366
Nixon, G. M., 2259, 2353a
Norton, L. E., 2230

O

O'Dea, Dorothy, 2336
Olson, H. F., 2249, 2302

P

Pensak, L., 2309
Peters, R. G., 2292
Peterson, D. W., 2276
Pettus, J. L., 2207, 2350
Picard, R. G., 2310
Pike, Donald, 2348
Pike, S. W., 2233
Potter, E. H., 2236
Preston, J., 2249, 2302
Price, E. K., 2231

R

Ramberg, E. G., 2289
Randall, H., 2261
Reisner, J. H., 2310
Rettinger, M., 2220
Rod, R. L., 2205
Roe, J. H., 2263
Romero, R. F., 2270, 2288
Rose, A., 2219
Ruedy, J. E., 2305

S

Sachtleben, L. T., 2207
Sadowsky, M., 2309
Sarnoff, D., 2240, 2267
Schade, O. H., 2228, 2277, 2307, 2346
Schroeder, A. C., 2304
Seeley, S. W., 2273, 2290
Seybold, A. M., 2260
Shrader, R. E., 2367, 2368, 2369
Simpson, S. H., Jr., 2282
Singer, K., 2285, 2300
Smith, J. P., 2226
Smith, P. T., 2332
Sparks, S., 2243, 2279
Spielberger, F. C., 2261
Stanko, E., 2210
Stevens, S. M., 2220
Stolze, W. J., 2328
Stone, R. P., 2227, 2345

T

Taylor, P. K., 2327
Thompson, L. E., 2264

V

Van Keuren, W. L., 2235
Vassos, J., 2233

W

Wald, S., 2239, 2253, 2301, 2325, 2331, 2334, 2354, 2356
Watson, S. H., 2297
Watts, W. W., 2211
Wendt, K. R., 2225, 2244, 2304
Wentker, F. W., 2364
Whalley, W. B., 2345
Wolfe, L. J., 2245
Wolff, I., 2234, 2278, 2313
Wood, E. J., 2367

Y

Yuan, L. C., 2349

Z

Zworykin, V. K., 2208

SUBJECT INDEX

Numbers refer to Chronological Index

ACOUSTICS—AUDIO-FREQUENCY SYSTEMS

Amplifiers: 2285, 2312
Loudspeakers: 2249
Public Address: 2220
Studio Design: 2259

ANTENNAS—TRANSMISSION LINES

Aircraft: 2331, 2334
FM: 2215, 2245, 2303
General: 2205
Television: 2359
Triplex: 2245

BROADCASTING

Maintenance: 2292
Operations: 2216, 2239
Stations: 2247
Transmitter: 2233, 2316

CIRCUITS—COMPONENTS—THEORY

Amplifiers: 2323
Contacts: 2309
Capacitors: 2253, 2325
Dielectrics: 2253
Filters: 2327
Frequency Stabilization: 2230
Microwaves: 2351
Networks: 2355
Noise: 2285, 2314
Resonators: 2275
Servicing: 2362
Tuner: 2288

COMMUNICATIONS

International: 2279
Multiplex: 2284
Propagation Conditions: 2283
Telegraphy: 2260, 2279, 2352
Receivers: 2312
Tape Relay: 2243
Transmitters: 2352

EDITORIAL

Engineering: 2308
Science: 2339
Specialization: 2321

ELECTRON OPTICS

Equipment: 2310
Microscopy: 2232, 2289, 2333, 2335, 2337

FREQUENCY MODULATION

Antennas: 2215, 2303
Books: 2206
Radar: 2234, 2242, 2278, 2313
Receivers: 2213, 2329
Servicing: 2209
Stations: 2247

GENERAL

Biological: 2219, 2333, 2335, 2337
Chemical: 2315, 2319, 2361, 2365, 2366, 2367, 2368, 2369
Guided Missiles: 2349
Indexes: 2238
Nucleonics: 2353
Optics: 2207, 2218, 2219, 2228, 2294
Phosphors: 2256, 2315, 2365, 2366, 2367, 2368, 2369
Physics: 2230, 2317, 2361
Radioactivity: 2353
Research: 2222
Servicing: 2217
Standards: 2297
Television: 2267, 2363, 2364
UHF Radio: 2296

MEASUREMENTS — TESTS — SERVICING

Absorption: 2255
Deflection Circuit: 2266
Distortion: 2322
Field Strength: 2241
FM Servicing: 2209
General: 2217
Receiver Measurements: 2272
Sound Servicing: 2210
Television Servicing: 2268, 2274, 2293, 2340
Test Equipment: 2293
Cacuum Tube: 2236

PROPAGATION

Field Strength: 2241
Microwave: 2229, 2264, 2351
Studies: 2241, 2251, 2276, 2283, 2347
Sun Spots: 2283
Troposphere: 2251
UHF: 2241, 2276, 2347

PHONOGRAPHS — RECORDING AND REPRODUCTION — SOUND MOTION PICTURES

Film: 2207, 2350
Filter: 2300
Magnetic: 2336, 2338, 2341
Pickup: 2302
Recording Console: 2320
Rerecording: 2261
Servicing: 2210, 2292
Transcription: 2292

RADIOPHOTO — FACSIMILE

Chemical Recording: 2319
Standards: 2282

RECEIVERS — RECEPTION

AM: 2213, 2249, 2330
FM: 2213, 2329, 2330
Measurements: 2272
Television: 2224, 2231, 2270, 2281, 2328

SPECIAL EQUIPMENT AND PROCESSES

Air Navigation: 2211, 2349
Brightness Intensifier: 2305
Computer: 2252, 2306
Crystal Resonators: 2275
Field Intensity Meter: 2265
Frequency Stabilization: 2230
Kinescope Photography: 2280, 2357
Photometry: 2295
Radar: 2234, 2251, 2278, 2313
Remote Control: 2239, 2356
Scintillation Counter: 2353
Servo: 2301
Spectroscopy: 2255
Stereoscopic Viewing: 2242
Teleran: 2211
Timers: 2248, 2250, 2251, 2354

TELEVISION

AGC: 2304
Amplifiers: 2258, 2263, 2270
Antennas: 2359
Book: 2370
Camera: 2307
Colorimetry: 2344
Converters: 2318
DC Component: 2225, 2244
Deflection Circuit: 2266, 2298
Electro-Optics: 2228, 2277, 2307, 2346
Field Equipment: 2257
Film Projectors: 2269
Flying Spot: 2348
General: 2208, 2228, 2233, 2240, 2267, 2277, 2307, 2326, 2339, 2346, 2363, 2364
Intercarrier Sound: 2290
Kinescope Photography: 2280, 2357
Modulation: 2273
Monitor: 2231
Photometry: 2295
Pickup: 2348
Power Supply: 2224
Pre-Amplifiers: 2270
Projection: 2269, 2281
Propagation: 2276, 2347
Receivers: 2270, 2281, 2298, 2304, 2328
Servicing: 2236, 2268, 2293, 2340, 2362
Sound: 2290
Stations: 2247, 2353a, 2353b, 2357a
Test Probe: 2274
Theatre: 2212, 2218, 2221, 2291, 2294
Transmitter: 2246, 2273, 2276, 2342, 2345
Tuner: 2288
UHF: 2276, 2318, 2345, 2347
Vacuum Tubes: 2237, 2254, 2358

TRANSMITTERS—TRANSMISSION

Amplifier: 2323
Antennas: 2303
Broadcast: 2316
Building Plans: 2233
Communication: 2352
Multiplex: 2284
Portable: 2311
Television: 2246, 2273, 2276, 2342, 2345
UHF: 2262

VACUUM TUBES—THERMIONICS

Amplifiers: 2258
Filaments: 2286, 2287
Growing Wave: 2343
Industrial: 2223
Kinescopes: 2214, 2254
Manufacture: 2235, 2254, 2358
Miniature: 2235, 2271
Multiplier: 2353
Phono Pickup: 2302
Rating: 2299
Receiving: 2213
Storage: 2226
Television: 2237, 2254, 2258
Thyratron: 2248
Transitrol: 2360
UHF: 2227, 2324, 2332

ERRATA SHEET

RCA TECHNICAL PAPERS (1947)
INDEX, Volume II (b)

(Remove this page and insert in Volume II(b) opposite page — iii —)

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2048a "Empirical Formula for Amplification Factor", E. W. Herold, *Proc. I.R.E.* (May) 1947

2150a "The Electron and Light Microscopy of Beggiatoa", F. H. Johnson and R. F. Baker, *Jour. Cellular and Comparative Physiology* (October) 1947

2158a "Television Receiver Production Test Equipment", J. A. Bauer, *Communications* (October) 1947

2182a "Measured Characteristics of the Pylon Antenna", O. O. Fiet, *Broadcast News* (December) 1947

2193a "Television Progress", David Sarnoff, *Broadcast News* (December) 1947

2196a "Use of Miniature Tubes in Stagger-Tuner Video Intermediate-Frequency Systems", *RCA Application Note AN-126*, RCA Tube Department, Harrison, N. J. (December 15) 1947

2201 "Radio-Scientific Developments and Television in the U. S.", G. L. Beers, SECTION OF TEN EVENTFUL YEARS, (1937-1946), Encyclopedia Britannica 1947

Corrections on the following item may be made as indicated:

On page 20 after Olson, H. F., change 2002 to read 2001.

Cut along this line — Insert in INDEX, Volume II(b)

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INDEX, Volume I

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Notations concerning the following items may be made on applicable pages as indicated by date, author, and subject matter.

33a "Progress in Radio Receiving During 1924", A. N. Goldsmith, *G. E. Rev.* (January) 1925

79a "Recent Developments in Superheterodyne Receivers", G. L. Beers and W. L. Carlson, *Proc. I.R.E.* (March) 1929

593a "Thin Film Field Emission", L. Malter, *Phys. Rev.*, (July 1) ... 1936

1281a "Simple Antennas and Receiver Input Circuits for Ultra-High Frequencies", R. S. Holmes and A. H. Turner, RADIO AT ULTRA-HIGH FREQUENCIES, Vol. I, (April) 1940

12/31/48

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